

CLAIMS

1. A ceramic product having a treated surface formed with a layer composed of a stain resistant agent, said agent including
5 a silicon-containing functional group combining with a hydroxyl group present on said treated surface by dehydration or dehydrogenation.

2. The ceramic product according to claim 1, wherein the
10 silicon-containing functional group does not combine with another silicon-containing functional group.

3. The ceramic product according to claim 1 or 2, wherein the stain resistant agent contains a terminal carbon fluoride
15 group combining with the silicon-containing functional group.

4. The ceramic product according to claim 3, wherein the carbon fluoride group is $-C_nF_{2n+1}$ where n is a natural number in a range of $1 \leq n \leq 12$.
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5. The ceramic product according to claim 1 or 2, wherein the stain resistant agent contains a terminal carbon fluoride group combining with the silicon-containing functional group and a terminal alkyl group combining with said silicon-containing
25 functional group, and said alkyl group has a larger quantity than said carbon fluoride group.

6. The ceramic product according to claim 1 or 2, wherein

the stain resistant agent contains a terminal carbon fluoride group combining with the silicon-containing functional group and a terminal alkyl group combining with said silicon-containing functional group, and said carbon fluoride group has a larger
5 quantity than said alkyl group.

7. The ceramic product according to claim 5, wherein the silicon-containing functional group and the alkyl group are combined with each other by dimethyl siloxane.
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8. The ceramic product according to claim 6, wherein the silicon-containing functional group and the alkyl group are combined with each other by dimethyl siloxane.

9. The ceramic product according to claim 7, wherein the stain resistant agent is a mixture of a first agent and a second agent, said first agent being a co-hydrolysate of an organic silicon compound containing a perphloroalkyl group and a methylpolysiloxane compound containing a hydrolytic group in a
15 hydrophilic solvent, said second agent being a mixture of organopolysiloxane and a strong acid.
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10. The ceramic product according to claim 9, wherein the dimethyl siloxane contains a straight chain combination of the
25 silicon-containing functional group and the alkyl group.

11. The ceramic product according to claim 1, wherein the treated surface is repeatedly wetted and dried.

13. The method according to claim 12, wherein the silicon-containing functional group does not combine with another silicon-containing functional group.

14. The method according to claim 12 or 13, wherein the stain resistant agent contains a terminal carbon fluoride group combining with the silicon-containing functional group.

15. The method according to claim 14, wherein the carbon fluoride group is $-C_nF_{2n+1}$ where n is a natural number in a range of $1 \leq n \leq 12$.

16. The method according to claim 12 or 13, wherein the stain resistant agent contains a terminal carbon fluoride group combining with the silicon-containing functional group and a terminal alkyl group combining with said silicon-containing functional group, and said alkyl group has a larger quantity than said carbon fluoride group.